

Claims :

1. A negative electrode for a secondary battery capable of occluding and releasing lithium ion, including at least one layer comprising alloy or
5 complex oxide containing metal forming alloy with lithium or lithium and metal not-forming alloy with lithium.
2. A negative electrode for a secondary battery capable of occluding and releasing lithium ion, having a layer comprising alloy or complex
10 oxide containing metal forming alloy with lithium and metal not-forming alloy with lithium.
3. A negative electrode for a secondary battery as claimed in claim 1 or 2, wherein metal forming alloy with the lithium contains at least one
15 metal selected from a group consisting of Si, Ge, Sn, Al, Pb, Pd, Ag, In and Cd.
4. A negative electrode for a secondary battery as claimed in any one of claims 1 to 3, wherein metal not-forming alloy with the lithium contains
20 at least one metal selected from a group consisting of Cu, Fe, B, Ni, Ti, Ta, W, Cr and Co.
5. A negative electrode for a secondary battery as claimed in any one of claims 1 to 4, further containing a layer comprising a lithium occlusion
25 material.

6. A negative electrode for a secondary battery as claimed in claim 5, wherein a layer comprising the lithium occlusion material is a carbon-based layer.

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7. A negative electrode for a secondary battery as claimed in any one of claims 1 to 6, wherein a layer comprising the alloy or complex oxide is formed through a sputtering technique, a CVD technique, a vapor deposition technique, or a plating technique.

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8. A negative electrode for a secondary battery as claimed in any one of claims 1 to 7, wherein a layer comprising the alloy or complex oxide has an amorphous structure.

15 9. A negative electrode for a secondary battery as claimed in any one of claims 1 ^{or 2} to 8, further containing a lithium metal layer.

10. A secondary battery provided with a negative electrode for a secondary battery as claimed in any one of claims 1 to 9, a positive
20 electrode capable of occluding and releasing lithium ion, an electrolyte arranged between the negative electrode and the positive electrode.